

### Amendments to the Sequence Listing

Shown below are amendments made to the sequence listing. An amended sequence listing is attached to this preliminary amendment.

#### SEQ ID NO:189

gaagatgacatcataattgcaacaaagaatggaaaagtcagaggggatgaacttgacagtttt  
tggtggcacggtaacagcctttcttggaattccctatgcacagccacctcttggttagacttc  
gattcaaaaagccacagtctctgaccaagtggctctgatatttggaatgccacaaaatatgca  
aattcttgctgtcagaacatagatcaaagttttccaggcttccatggatcagagatgtggaa  
cccaaacactgacctcagtgaagactgtttatatctaaatgtatggattccagcacctaaac  
caaaaaatgccactgtattgatattggatttatgggtgggtgggttttcaaactggaacatcatct  
ttacatgtttatgatggcaagtttctggctcgggttgaaagagttattgtagtgtcaatgaa  
ctataggggtgggtgccctaggattcttagctttgccaggaaatcctgaggctccagggaaca  
tggtgtttatttgatcaacagttggctcttcagtgggttcaaaaaaatatagcagcctttggt  
ggaaatcctaaaagtgtactctctttggagaaagtgcaggagcagcttcagttagcctgca  
tttgctttctcctggaagccattcattgttcaccagagccattctgcaaagtgggtccttta  
atgctccttgggcggtaacatctctttatgaagctaggaacagaacgttgaacttagctaaa  
ttgactgggttgctctagagagaatgagactgaaataatcaagtgtcttagaaataaagatcc  
ccaagaaattcttctgaatgaagtctttgttgtcccctatgggacteegctctttgtcagtaa  
actttgggtccgaccgtg

(853-855)

gatgggtgattttctcactgacatgccagacatattacttgaacttggacaatttaaaaaaac  
ccagatttttggtgggtgttaataaagatgaaggacagcttttttagtctatgggtgctcctg  
gcttcagcaaagataacaatagtatcataactagaaaagaatttcaggaagggtttaaaaata  
ttttttccaggagtgagtgagtttggaagggaatccatcctttttcattacacagactgggt  
agatgatcagagacctgaaaactaccgtgaggccttggtgatgttggtggggattataata  
ttatatgccctgccttgaggttcaccaagaagttctcagaatggggaaataatgcctttttc  
tactattttgaacaccgatcctccaaacttccgtggccagaatggatgggagtgatgcattgg  
ctatgaaattgaatttgtcttttggtttacctctggaaagaagagataattacacaaaagccg  
aggaaattttgagtagatccatagtgaacgggtgggcaaattttgcaaaaatatgggaatcca  
aatgagactcagaacaatagcacagctggcctgtcttcaaaagcactgaacaaaaatatct  
aaccttgaatacagagtcaacaagaataatgacgaaactacgtgctcaacaatgtcgattct  
ggacatcattttttccaaaagtcttggaatatgacaggaaatattgatgaagcagaatgggag  
tggaagcaggattccatcgctggaacaattacatgatggactggaaaaatcaatttaacga  
ttacactagcaagaaagaaagttgtgtgggtctc

#### SEQ ID NO:190

Glu	Asp	Asp	Ile	Ile	Ile	Ala	Thr	Lys	Asn	Gly	Lys	Val	Arg	Gly
Met	Asn	Leu	Thr	Val	Phe	Gly	Gly	Thr	Val	Thr	Ala	Phe	Leu	Gly
Ile	Pro	Tyr	Ala	Gln	Pro	Pro	Leu	Gly	Arg	Leu	Arg	Phe	Lys	Lys
Pro	Gln	Ser	Leu	Thr	Lys	Trp	Ser	Asp	Ile	Trp	Asn	Ala	Thr	Lys
Tyr	Ala	Asn	Ser	Cys	Cys	Gln	Asn	Ile	Asp	Gln	Ser	Phe	Pro	Gly
Phe	His	Gly	Ser	Glu	Met	Trp	Asn	Pro	Asn	Thr	Asp	Leu	Ser	Glu
Asp	Cys	Leu	Tyr	Leu	Asn	Val	Trp	Ile	Pro	Ala	Pro	Lys	Pro	Lys
Asn	Ala	Thr	Val	Leu	Ile	Trp	Ile	Tyr	Gly	Gly	Gly	Phe	Gln	Thr
Gly	Thr	Ser	Ser	Leu	His	Val	Tyr	Asp	Gly	Lys	Phe	Leu	Ala	Arg
Val	Glu	Arg	Val	Ile	Val	Val	Ser	Met	Asn	Tyr	Arg	Val	Gly	Ala
Leu	Gly	Phe	Leu	Ala	Leu	Pro	Gly	Asn	Pro	Glu	Ala	Pro	Gly	Asn
Met	Gly	Leu	Phe	Asp	Gln	Gln	Leu	Ala	Leu	Gln	Trp	Val	Gln	Lys

Asn Ile Ala Ala Phe Gly Gly Asn Pro Lys Ser Val Thr Leu Phe  
Gly Glu Ser Ala Gly Ala Ala Ser Val Ser Leu His Leu Leu Ser  
Pro Gly Ser His Ser Leu Phe Thr Arg Ala Ile Leu Gln Ser Gly  
Ser Phe Asn Ala Pro Trp Ala Val Thr Ser Leu Tyr Glu Ala Arg  
Asn Arg Thr Leu Asn Leu Ala Lys Leu Thr Gly Cys Ser Arg Glu  
Asn Glu Thr Glu Ile Ile Lys Cys Leu Arg Asn Lys Asp Pro Gln  
Glu Ile Leu Leu Asn Glu Val Phe Val Val Pro Tyr Gly Thr ~~Pro~~  
~~285~~

Leu Leu Ser Val Asn Phe Gly Pro Thr Val Asp Gly Asp Phe Leu  
~~285~~

Thr Asp Met Pro Asp Ile Leu Leu Glu Leu Gly Gln Phe Lys Lys  
Thr Gln Ile Leu Val Gly Val Asn Lys Asp Glu Gly Thr Ala Phe  
Leu Val Tyr Gly Ala Pro Gly Phe Ser Lys Asp Asn Asn Ser Ile  
Ile Thr Arg Lys Glu Phe Gln Glu Gly Leu Lys Ile Phe Phe Pro  
Gly Val Ser Glu Phe Gly Lys Glu Ser Ile Leu Phe His Tyr Thr  
Asp Trp Val Asp Asp Gln Arg Pro Glu Asn Tyr Arg Glu Ala Leu  
Gly Asp Val Val Gly Asp Tyr Asn Ile Ile Cys Pro Ala Leu Glu  
Phe Thr Lys Lys Phe Ser Glu Trp Gly Asn Asn Ala Phe Phe Tyr  
Tyr Phe Glu His Arg Ser Ser Lys Leu Pro Trp Pro Glu Trp Met  
Gly Val Met His Gly Tyr Glu Ile Glu Phe Val Phe Gly Leu Pro  
Leu Glu Arg Arg Asp Asn Tyr Thr Lys Ala Glu Glu Ile Leu Ser  
Arg Ser Ile Val Lys Arg Trp Ala Asn Phe Ala Lys Tyr Gly Asn  
Pro Asn Glu Thr Gln Asn Asn Ser Thr Ser Trp Pro Val Phe Lys  
Ser Thr Glu Gln Lys Tyr Leu Thr Leu Asn Thr Glu Ser Thr Arg  
Ile Met Thr Lys Leu Arg Ala Gln Gln Cys Arg Phe Trp Thr Ser  
Phe Phe Pro Lys Val Leu Glu Met Thr Gly Asn Ile Asp Glu Ala  
Glu Trp Glu Trp Lys Ala Gly Phe His Arg Trp Asn Asn Tyr Met  
Met Asp Trp Lys Asn Gln Phe Asn Asp Tyr Thr Ser Lys Lys Glu  
Ser Cys Val Gly Leu

~~SEQ ID NO:199~~  
~~000~~

~~SEQ ID NO:200~~  
~~000~~

~~SEQ ID NO:201~~ SEQ ID NO:199

gaggtgcagctggtgcagctctggagcagaggtgaaaaagcccgaggagtctctgaagatctc  
ctgtaagggttctggccgtacatttaccagttacaatatgcactgggtgcgccagatgcccg  
ggaaaggcctggagtggtatgggggctatttatcccttgacgggtgatacttcctacaatcag  
aagtcgaaactccaggtcaccatctcagccgacaagtccatcagcacccgctacctgcagtg  
gagcagcctgaaggcctcggacaccgccaatgtattactgtgagagatcgacttacgtgggcg  
gtgactggcagttcgatgtctgggggcaaggggaccacgggtcacctctcctcagcctccacc  
aaggggcccatcggtcttccccctggcacccctcctccaagagcacctctggggggcacagcggc  
cctggggtgcctgggtcaaggactacttccccgaaccgggtgacgggtgtcgtggaactcaggcg  
ccctgaccagcggcgtgcacaccttcccggtgtcctacagtcctcaggactctactccctc  
agcagcgtggtgaccgtgccctccagcagcttgggcacccagacctacatctgcaacgtgaa  
tcacaagcccagcaacaccaaggtggacaagaaagcagagcccaaactcttgtagacaaaactc  
acacatgcccaccgtgcccaaagcttgaagatgacatcataattgcaacaaagaatggaaaa  
gtcagaggggatgaacttgacagtttttgggtggcacggtaacagcctttcttggaattcccta  
tgcacagccacctcttggtagacttcgattcaaaaagccacagtcctctgaccaagtgggtctg

atatttggaatgccacaaaatatgcaaattcttgctgtcagaacatagatcaaagttttcca  
ggcttcttttgatcagagatgtggaacccaaacactgacctcagtgaagactgtttatatct  
aatgtatggattccagcacctaaaccaaaaaaatgccactgtattgatatggatttatgggtg  
gtggttttcaaactggaacatcatctttacatgttttatgatggcaagtttctggctcgggtt  
gaaagagttattgtagtgtcaatgaactataggggtgggtgccctaggattcttagctttgcc  
aggaaatcctgaggctccaggggaacatgggtttatttgatcaacagttggctcttcagtggg  
ttcaaaaaaatatagcagcctttgggtggaaatcctaaaagtgttaactctctttggagaaagt  
gcaggagcagcttcagttagcctgcatttgctttctcctggaagccattcattgttcaccag  
agccattctgcaaagtgggtccgctaatactccttggggcggtaacatctctttatgaagcta  
ggaacagaacgttgaacttagctaaattgactgggttgctctagagagaatgagactgaaata  
atcaagtgtcttagaaataaagatccccaagaaattcttctgaatgaagcatttggtgtccc  
ctatgggactaatttgtcagtaaactttgggtccgaccgtggatgggtgattttctcactgaca  
tgccagacatattacttgaacttggacaatttaaaaaaacccagattttgggtgggtgttaat  
aaagatgaagggacagcttttttagcgtatgggtgctcctggcttcagcaaagataacaatag  
tatcataactagaaaagaatttcaggaagggttaaaaaatattttttccaggagtgagtgagt  
ttggaaaggaatccatcctttttcattacacagactgggtagatgatcagagacctgaaaac  
taccgtgaggccttgggtgatgttggtggggattataatttcatatgccctgccttggagtt  
caccaagaagttctcagaatggggaaataatgcctttttctactattttgaacaccgatcct  
ccaaacttccgtggccagaatggatggggagtgatgcattggctatgaaattgaatttgcttt  
ggtttacctctggaaagaagagataattacacaaaagccgaggaaattttgagtagatccat  
agtgaacgggtgggcaaattttgcaaaaatatgggaatccaaatgagactcagaacaatagca  
caagctggcctgtcttcaaaagcactgaacaaaaatatctaaccttgaatacagagtcaaca  
agaataatgacgaaactacgtgctcaacaatgtcgattctggacatcattttttccaaaagt  
ctga

~~SEQ ID NO:202~~ SEQ ID NO:200

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly  
Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Arg Thr Phe Thr  
Ser Tyr Asn Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu  
Glu Trp Met Gly Ala Ile Tyr Pro Leu Thr Gly Asp Thr Ser Tyr  
Asn Gln Lys Ser Lys Leu Gln Val Thr Ile Ser Ala Asp Lys Ser  
Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp  
Thr Ala Met Tyr Tyr Cys Ala Arg Ser Thr Tyr Val Gly Gly Asp  
Trp Gln Phe Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser  
Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val  
Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly  
Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser  
Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser  
Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro  
Ser Asn Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser Cys Asp  
Lys Thr His Thr Cys Pro Pro Cys Pro Lys Leu Glu Asp Asp Ile  
Ile Ile Ala Thr Lys Asn Gly Lys Val Arg Gly Met Asn Leu Thr  
Val Phe Gly Gly Thr Val Thr Ala Phe Leu Gly Ile Pro Tyr Ala  
Gln Pro Pro Leu Gly Arg Leu Arg Phe Lys Lys Pro Gln Ser Leu  
Thr Lys Trp Ser Asp Ile Trp Asn Ala Thr Lys Tyr Ala Asn Ser  
Cys Cys Gln Asn Ile Asp Gln Ser Phe Pro Gly Phe Phe Gly Ser  
Glu Met Trp Asn Pro Asn Thr Asp Leu Ser Glu Asp Cys Leu Tyr  
Leu Asn Val Trp Ile Pro Ala Pro Lys Pro Lys Asn Ala Thr Val

Leu	Ile	Trp	Ile	Tyr	Gly	Gly	Gly	Phe	Gln	Thr	Gly	Thr	Ser	Ser
Leu	His	Val	Tyr	Asp	Gly	Lys	Phe	Leu	Ala	Arg	Val	Glu	Arg	Val
Ile	Val	Val	Ser	Met	Asn	Tyr	Arg	Val	Gly	Ala	Leu	Gly	Phe	Leu
Ala	Leu	Pro	Gly	Asn	Pro	Glu	Ala	Pro	Gly	Asn	Met	Gly	Leu	Phe
Asp	Gln	Gln	Leu	Ala	Leu	Gln	Trp	Val	Gln	Lys	Asn	Ile	Ala	Ala
Phe	Gly	Gly	Asn	Pro	Lys	Ser	Val	Thr	Leu	Phe	Gly	Glu	Ser	Ala
Gly	Ala	Ala	Ser	Val	Ser	Leu	His	Leu	Leu	Ser	Pro	Gly	Ser	His
Ser	Leu	Phe	Thr	Arg	Ala	Ile	Leu	Gln	Ser	Gly	Ser	Ala	Asn	Ala
Pro	Trp	Ala	Val	Thr	Ser	Leu	Tyr	Glu	Ala	Arg	Asn	Arg	Thr	Leu
Asn	Leu	Ala	Lys	Leu	Thr	Gly	Cys	Ser	Arg	Glu	Asn	Glu	Thr	Glu
Ile	Ile	Lys	Cys	Leu	Arg	Asn	Lys	Asp	Pro	Gln	Glu	Ile	Leu	Leu
Asn	Glu	Ala	Phe	Val	Val	Pro	Tyr	Gly	Thr	Asn	Leu	Ser	Val	Asn
Phe	Gly	Pro	Thr	Val	Asp	Gly	Asp	Phe	Leu	Thr	Asp	Met	Pro	Asp
Ile	Leu	Leu	Glu	Leu	Gly	Gln	Phe	Lys	Lys	Thr	Gln	Ile	Leu	Val
Gly	Val	Asn	Lys	Asp	Glu	Gly	Thr	Ala	Phe	Leu	Ala	Tyr	Gly	Ala
Pro	Gly	Phe	Ser	Lys	Asp	Asn	Asn	Ser	Ile	Ile	Thr	Arg	Lys	Glu
Phe	Gln	Glu	Gly	Leu	Lys	Ile	Phe	Phe	Pro	Gly	Val	Ser	Glu	Phe
Gly	Lys	Glu	Ser	Ile	Leu	Phe	His	Tyr	Thr	Asp	Trp	Val	Asp	Asp
Gln	Arg	Pro	Glu	Asn	Tyr	Arg	Glu	Ala	Leu	Gly	Asp	Val	Val	Gly
Asp	Tyr	Asn	Phe	Ile	Cys	Pro	Ala	Leu	Glu	Phe	Thr	Lys	Lys	Phe
Ser	Glu	Trp	Gly	Asn	Asn	Ala	Phe	Phe	Tyr	Tyr	Phe	Glu	His	Arg
Ser	Ser	Lys	Leu	Pro	Trp	Pro	Glu	Trp	Met	Gly	Val	Met	His	Gly
Tyr	Glu	Ile	Glu	Phe	Val	Phe	Gly	Leu	Pro	Leu	Glu	Arg	Arg	Asp
Asn	Tyr	Thr	Lys	Ala	Glu	Glu	Ile	Leu	Ser	Arg	Ser	Ile	Val	Lys
Arg	Trp	Ala	Asn	Phe	Ala	Lys	Tyr	Gly	Asn	Pro	Asn	Glu	Thr	Gln
Asn	Asn	Ser	Thr	Ser	Trp	Pro	Val	Phe	Lys	Ser	Thr	Glu	Gln	Lys
Tyr	Leu	Thr	Leu	Asn	Thr	Glu	Ser	Thr	Arg	Ile	Met	Thr	Lys	Leu
Arg	Ala	Gln	Gln	Cys	Arg	Phe	Trp	Thr	Ser	Phe	Phe	Pro	Lys	Val

~~SEQ ID NO:203~~  
000

~~SEQ ID NO:204~~ SEQ ID NO:201

Glu	Asp	Asp	Ile	Ile	Ile	Ala	Thr	Lys	Asn	Gly	Lys	Val	Arg	Gly
Met	Asn	Leu	Thr	Val	Phe	Gly	Gly	Thr	Val	Thr	Ala	Phe	Leu	Gly
Ile	Pro	Tyr	Ala	Gln	Pro	Pro	Leu	Gly	Arg	Leu	Arg	Phe	Lys	Lys
Pro	Gln	Ser	Leu	Thr	Lys	Trp	Ser	Asp	Ile	Trp	Asn	Ala	Thr	Lys
Tyr	Ala	Asn	Ser	Cys	Cys	Gln	Asn	Ile	Asp	Gln	Ser	Phe	Pro	Gly
Phe	Phe	Gly	Ser	Glu	Met	Trp	Asn	Pro	Asn	Thr	Asp	Leu	Ser	Glu
Asp	Cys	Leu	Tyr	Leu	Asn	Val	Trp	Ile	Pro	Ala	Pro	Lys	Pro	Lys
Asn	Ala	Thr	Val	Leu	Ile	Trp	Ile	Tyr	Gly	Gly	Gly	Phe	Gln	Thr
Gly	Thr	Ser	Ser	Leu	His	Val	Tyr	Asp	Gly	Lys	Phe	Leu	Ala	Arg
Val	Glu	Arg	Val	Ile	Val	Val	Ser	Met	Asn	Tyr	Arg	Val	Gly	Ala
Leu	Gly	Phe	Leu	Ala	Leu	Pro	Gly	Asn	Pro	Glu	Ala	Pro	Gly	Asn
Met	Gly	Leu	Phe	Asp	Gln	Gln	Leu	Ala	Leu	Gln	Trp	Val	Gln	Lys
Asn	Ile	Ala	Ala	Phe	Gly	Gly	Asn	Pro	Lys	Ser	Val	Thr	Leu	Phe
Gly	Glu	Ser	Ala	Gly	Ala	Ala	Ser	Val	Ser	Leu	His	Leu	Leu	Ser
Pro	Gly	Ser	His	Ser	Leu	Phe	Thr	Arg	Ala	Ile	Leu	Gln	Ser	Gly
Ser	Xaa	Asn	Ala	Pro	Trp	Ala	Val	Thr	Ser	Leu	Tyr	Glu	Ala	Arg
Asn	Arg	Thr	Leu	Asn	Leu	Ala	Lys	Leu	Thr	Gly	Cys	Ser	Arg	Glu

Asn	Glu	Thr	Glu	Ile	Ile	Lys	Cys	Leu	Arg	Asn	Lys	Asp	Pro	Gln
Glu	Ile	Leu	Leu	Asn	Glu	Ala	Phe	Val	Val	Pro	Tyr	Gly	Thr	Asn
Leu	Ser	Val	Asn	Phe	Gly	Pro	Thr	Val	Asp	Gly	Asp	Phe	Leu	Thr
Asp	Met	Pro	Asp	Ile	Leu	Leu	Glu	Leu	Gly	Gln	Phe	Lys	Lys	Thr
Gln	Ile	Leu	Val	Gly	Val	Asn	Lys	Asp	Glu	Gly	Thr	Ala	Phe	Leu
Ala	Tyr	Gly	Ala	Pro	Gly	Phe	Ser	Lys	Asp	Asn	Asn	Ser	Ile	Ile
Thr	Arg	Lys	Glu	Phe	Gln	Glu	Gly	Leu	Lys	Ile	Phe	Phe	Pro	Gly
Val	Ser	Glu	Phe	Gly	Lys	Glu	Ser	Ile	Leu	Phe	His	Tyr	Thr	Asp
Trp	Val	Asp	Asp	Gln	Arg	Pro	Glu	Asn	Tyr	Arg	Glu	Ala	Leu	Gly
Asp	Val	Val	Gly	Asp	Tyr	Asn	Phe	Ile	Cys	Pro	Ala	Leu	Glu	Phe
Thr	Lys	Lys	Phe	Ser	Glu	Trp	Gly	Asn	Asn	Ala	Phe	Phe	Tyr	Tyr
Phe	Glu	His	Arg	Ser	Ser	Lys	Leu	Pro	Trp	Pro	Glu	Trp	Met	Gly
Val	Met	His	Gly	Tyr	Glu	Ile	Glu	Phe	Val	Phe	Gly	Leu	Pro	Leu
Glu	Arg	Arg	Asp	Asn	Tyr	Thr	Lys	Ala	Glu	Glu	Ile	Leu	Ser	Arg
Ser	Ile	Val	Lys	Arg	Trp	Ala	Asn	Phe	Ala	Lys	Tyr	Gly	Asn	Pro
Asn	Glu	Thr	Gln	Asn	Asn	Ser	Thr	Ser	Trp	Pro	Val	Phe	Lys	Ser
Thr	Glu	Gln	Lys	Tyr	Leu	Thr	Leu	Asn	Thr	Glu	Ser	Thr	Arg	Ile
Met	Thr	Lys	Leu	Arg	Ala	Gln	Gln	Cys	Arg	Phe	Trp	Thr	Ser	Phe
Phe	Pro	Lys	Val	Leu										